

Application No. 09/770,765
Amendment "B" dated May 18, 2004
Reply to Office Action mailed January 20, 2004

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1 - 21 (Cancelled)

22. (Withdrawn) A method of frame rate buffering comprising:
providing a source of compressed video which generates a compressed video stream having a variable frame rate;
providing a video display unit which receives said compressed video frames, decompresses said video frames and displays said video frames, wherein said unit is constrained to a fixed frame rate; and
padding said generated compressed video frames with frames which indicate that no change has occurred, to achieve said fixed frame rate.

23. (Withdrawn) A method according to claim 22, comprising, increasing said padding and decreasing said variable rate, to compensate for bandwidth limitation in transmission between said source and said display unit.

24. (Withdrawn) A method according to claim 22, comprising, increasing said padding and decreasing said variable rate, to compensate for an instantaneous resource limitation at said source.

25. (Withdrawn) A method of bandwidth allocation for a compressed video stream, comprising:
generating a plurality of display commands, by executing a computer program;
converting said display commands into a compressed video stream;
estimating a future content of said video stream; and
allocating resources responsive to said estimate.

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26. (Withdrawn) A method according to claim 25, wherein said resources are one of bandwidth resources and CPU resources.
27. (Withdrawn) A method according to claim 25, wherein said program comprises a WWW browser.
28. (Withdrawn) A method according to claim 27, wherein estimating comprises identifying a future download of complex display data.
29. (Withdrawn) A method according to claim 27, wherein estimating comprises identifying a future download of a continuous data stream.
30. (Currently Amended) A method of bandwidth allocation for transmitting video on a cable network, comprising:
providing a plurality of data sources;
differentially converting said data sources into compressed video streams, responsive to an instantaneous resource restriction and a content of said data sources; and
multiplexing said compressed video streams on a single transmission line.
31. (Previously Presented) A method according to claim 30, wherein said differentially converting comprises converting each data source to a different frame rate compressed video stream.
32. (Previously Presented) A method according to claim 30, wherein said differentially converting comprises, converting each data source to a different frame quality level.
33. (Previously Presented) A method according to claim 30, wherein said resource restriction comprises a bandwidth restriction.

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34. (Previously Presented) A method according to claim 30, wherein said resource restriction comprises a computing resource restriction.

35. (Previously Presented) A method according to claim 30, wherein said data sources comprise display commands.

36. (Cancelled)

37. (Previously Presented) A method according to claim 36, comprising providing an indication of said content with said data sources.

38. (Previously Presented) A method according to claim 36, comprising providing an indication of said content by analyzing display commands which are comprised in said data sources.

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cont.
39. (Previously Presented) A method according to claim 36, comprising providing an indication of said content by a software which generates at least one of said data sources.

40. (Withdrawn) A method of bandwidth allocation, comprising:
providing a distribution network having a bandwidth;
transmitting on said network a plurality of channels, comprising Internet channels and TV channels; and
dynamically allocating bandwidth between Internet channels and TV channels.

41. (Withdrawn) A method of statistical bit multiplexing, comprising:
providing a plurality of compressed video streams to be multiplexed;
providing, for at least one of said plurality of streams, side information, indicative of a content of a frame of said stream; and
differentially dropping bits from said at least one of plurality of streams, responsive to said side information.

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42. (Withdrawn) A method according to claim 41, wherein said side information includes a minimal quality level for said frame.

43. (New) A method of bandwidth allocation for transmitting video on a cable network, comprising:

providing a plurality of data sources;

differentially converting said data sources into compressed video streams, responsive to an instantaneous computing resource restriction; and

multiplexing said compressed video streams on a single transmission line.

44. (New) A method according to claim 43, wherein said differentially converting comprises converting each data source to a different frame rate compressed video stream.

45. (New) A method according to claim 43, wherein said differentially converting comprises, converting each data source to a different frame quality level.

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46. (New) A method of bandwidth allocation for transmitting video on a cable network, comprising:

providing a plurality of data sources;

differentially converting said data sources into compressed video streams, responsive to an instantaneous resource restriction, by converting each data source to a different frame rate compressed video stream; and

multiplexing said compressed video streams on a single transmission line.

47. (New) A method according to claim 46, wherein said differentially converting further comprises converting each data source to a different frame quality level.

48. (New) A method according to claim 46, wherein said resource restriction comprises a bandwidth restriction.

49. (New) A method according to claim 46, wherein said resource restriction comprises a computing resource restriction.
